



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

August 18, 1999

Christopher B. Fisher  
Cuddy, Feder & Worby  
90 Maple Avenue  
White Plains, NY 10601-5196

Re: EM-AT&T-135-990721 - AT&T Wireless PCS notice of intent to modify an existing telecommunications facility located at 168 Catoonah Lane in Stamford, Connecticut.

Dear Mr. Fisher:

At a public meeting held on August 16, 1999, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility in Stamford, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 20, 1999. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston  
Chairman

MAG/RKE/tsg

c: Honorable Dannel P. Malloy, Mayor, City of Stamford

## CUDDY &amp; FEDER &amp; WORBY LLP

90 MAPLE AVENUE  
WHITE PLAINS, NEW YORK 10601-5196

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1971-1995

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MICHAEL R. EDELMAN  
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ROBERT L. OSAR (also TX)  
ROBERT C. SCHNEIDER  
LOUIS R. TAFFERA

July 20, 1999

VIA FEDERAL EXPRESS

Hon. Mortimer A. Gelston, Chairman  
and Members of the Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

RECEIVED

JUL 21 1999


CONNECTICUT  
SITING COUNCIL

Re: AT&T Wireless PCS, Inc.  
Notice of Exempt Modification  
AT&T Facility, Catoonah Lane, Stamford Connecticut

Dear Chairman Gelston and Members of the Council:

On behalf of AT&T Wireless PCS, Inc. d/b/a AT&T Wireless Services, we respectfully enclose an original and twenty copies of its notice of exempt modification with respect to the above mentioned facility owned by AT&T, together with a check for \$500.00, the filing fee. We would appreciate it if this matter were placed on the next available agenda for acknowledgment by the Council. Should the Council or staff any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,

  
Christopher B. Fisher

cc: Mr. Michael Murphy

RECEIVED

JUL 21 1999

CONNECTICUT  
SITING COUNCIL

**NOTICE OF INTENT TO MODIFY AN  
AT&T OWNED AND OPERATED FACILITY AT  
168 CATOONA LANE, STAMFORD, CONNECTICUT**

Pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes §§ 16-50g - 16-50aa ("PUESA"), and Sections 16-50j-72(b)(2) and 16-50j-73 of the Regulations of Connecticut State Agencies adopted pursuant to the PUESA, AT&T Wireless PCS, Inc. ("AT&T Wireless") hereby notifies the Connecticut Siting Council of its intent to modify an existing facility located at 168 Catoonah Lane, Stamford, Connecticut (the "Catoonah Lane Facility") which is owned and operated by AT&T Communications ("AT&T"). This notice is being provided by AT&T Wireless, as lessee, on behalf of and pursuant to a lease with AT&T, the relevant and executed portions of which are annexed hereto as Exhibit. AT&T is a public service company as defined in Section 16-1 of the Connecticut General Statutes.

**The Catoonah Lane Facility**

The Catoonah Lane Facility is an approximately three hundred (300) foot high steel lattice telecommunications tower which is currently being used by Springwichee Cellular Limited Partnership, SNET Paging, Sprint Spectrum, Nextel Communications and Omnipoint for wireless communications (the "Tower"). The Tower is fenced with two equipment buildings and other equipment located at its base.

**AT&T Wireless' Facility**

As shown on the enclosed plans prepared by URS Greiner including a site plan, equipment room layout and tower elevation of the Catoonah Lane Facility, AT&T Wireless proposes shared use of the Facility by utilizing the Tower and space within an existing building for its equipment needed to provide personal communications services ("PCS"). AT&T Wireless' facility will consist primarily of nine (9) panel antennas installed at the 242 and 222 foot levels of the Tower. Cables will be run down the Tower to the existing equipment building where the rest of AT&T's equipment will be installed inside. In order to structurally accommodate AT&T Wireless' facility, AT&T has authorized the removal of the four existing AT&T horn antennas and associated cables on the Tower.

**AT&T Wireless' Facility Constitutes An Exempt Modification**

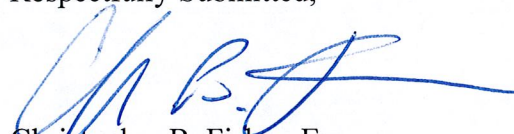
The proposed addition of AT&T Wireless' facility to the Tower does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d). Addition of AT&T Wireless' facility to the Tower will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower. Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. As set forth in a report prepared by Scienetics Corporation annexed hereto as Exhibit B, the total radio frequency electromagnetic radiation power density at the Tower site's boundary will not be increased to or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes. For all the foregoing reasons, addition of AT&T Wireless' facility to the Tower constitutes an

exempt modification which will not have a substantially adverse environmental effect.

**Conclusion**

Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modifications to the Catoonah Lane Facility meets the Council's exemption criteria as it previously determined for Springwiche, Nextel, Sprint and Omnipoint's facilities on the Tower.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Ch B. Fisher", with a long horizontal flourish extending to the right.

Christopher B. Fisher, Esq.  
On behalf of AT&T Wireless

## ANALYSIS

This critical analysis\* incorporated PCS Radio antenna emission characteristics and included the following assumptions which exceed realistic conditions of operations, but will yield worst case EMF - Power Densities ordinarily not realized and never exceeded.

1. All antennas are located at the lowest elevation indicated in the construction drawing to absorb errors in actual locations and to bring the antenna cluster closer to facilities and citizens than would normally be the case.
2. The transmitting antenna will be transmitting continuously, 24 hours a day.
3. Power levels emitting from the antennas are increased by a factor of 2.56 to take into account possible in - phase reflections at any point in the community, which is rarely the case, and if so, are never continuous.
4. At all distances greater than 2000 feet, the Power Densities decrease by a factor of four (4) with every doubling of distance.

The PCS Installation in question is an assembly of low power antennas that emits radio energy at levels 100 to 1000 times below those of Commercial Broadcast Antennas. Given the distances between the antennas studied in this report and the community field points in question, as well as the overall community, the densities of the radio energy are extremely low.

\* Reference Basis for calculations:

1. "Evaluating Compliance With FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields. OET Bulletin No. 65 -Edition 97-01 "
2. Copies of data, sketches and specifications submitted by AT&T are the basis for our studies, calculations and analysis.

**EXHIBIT A**  
**SITE SUPPLEMENT**

**CELL/GEO CODE: SMFRCTQB/CT1360**

**TENANTS NAME: AT&T Wireless PCS, Inc. by and through its agent AT&T Wireless Services, Inc.**

**SITE NAME: Stamford, CT**

**TERM OF SITE SUPPLEMENT: Effective Date: 08 / 02 / 1999 (Tentative)**  
**Expiration Date: 08 / 01 / 2004 (Tentative)**

Note: These dates are based on the premise that this Site Supplement will be executed by June 30, 1999.

This Site Supplement ("Site Supplement") is made and entered into as of the 1 day of July, 1999, pursuant to the Master Lease dated March 15, 1996, between AT&T Corp., on behalf of itself and its affiliated AT&T Communications companies, ("Landlord"), and AT&T Wireless PCS, Inc. by and through its agent AT&T Wireless Services, Inc., on behalf of itself and its affiliated companies, ("Tenant"), this Site is described as follows:

**Property Legal Description:**

Coordinates: Lat: 41-03-00 Long: 73-33-00

(See AT&T's Property Folder for Legal Description)

**PURPOSE OF LEASE**

Antenna Description: (include height on tower, manufacturer and model numbers)

Six (6) DAPA 58010 panel antennas mounted at the 242' C/L AGL. Three (3) DAPA 58010 panel antennas mounted at the 222' C/L AGL.

Note: Landlord reserves the right to charge the Tenant for antenna maintenance at the rates of:

- \* Sixty-five dollars (~~XXXXXX~~) per hour during the "normal business" hours of 8:00 a.m. to 5:00 p.m., Monday through Friday
- \* One Hundred Dollars (~~XXXXXX~~) per hour on weekends, holidays and anytime other than normal business hours.

(See Exhibit B: Description of Easements)

Operating Frequency(ies): Transmit: 1885-1890 MHz Receive: 1965-1970 MHz

Transmission Line Description: (include manufacturer and diameter)

Nine (9) 1 5/8" coaxial cables.

**Floor Space Requirement:**

Tenant will use two-hundred (200) square feet of building space inside Landlord's equipment enclosure to house its radio equipment.

(See Exhibit B: Description of Easements)

Equipment Requirements: (include manufacturer and model number)

Two (2) Lucent Technologies Power Cabinets, one (1) Lucent Primary Radio Bay and one (1) Lucent Growth Radio Bay.

Land Requirement: NA

(See Exhibit B: Description of Easements)

**Note: Tenant is responsible for providing a Plot Plan Sketch outlining its equipment shelter location to Landlord for review and approval prior to project commencement.**

AC Power Requirements:

Tenant will use one (1) 120/208 VAC/200 A/3 PH AC circuit available inside Landlord's existing equipment enclosure.

**In Witness Whereof**, the parties have caused this Exhibit A, SITE SUPPLEMENT, to be executed by their authorized representatives on the dates noted below.

AT&T CORP.

BY: *Susan Aberle*

Printed Name: Susan Aberle

Title: Manager, Tower Attachments

Date: 7/1/99

AT&T Wireless PCS, Inc. by and through its agent AT&T Wireless Services, Inc.

BY: *Paul A. Spunk*

Printed Name: PAUL A. SPUNK

Title: Sys. Dev. MGR

Date: 6/16/99

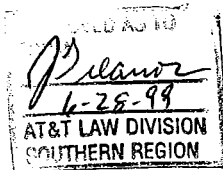




EXHIBIT B

271 North Avenue, Suite 711  
P.O. Box 1620, New Rochelle, NY 10802-1620

Phone: 914-576-6530  
Fax: 914-576-0576



**ENGINEERING REPORT  
SUMMARY**

**APRIL 29, 1999**

**POWER DENSITY ANALYSIS**

**THIS REPORT WAS PREPARED AND SIGNED BY  
LOUIS G. CORNACCHIA, BEE, PRESIDENT**

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**EVALUATION OF RADIO EMISSIONS FROM  
A PROPOSED AT&T WIRELESS SERVICES  
(PCS) ANTENNA INSTALLATION  
(SITE CT-008), FOR A INTEGRATED  
WIRELESS NETWORK, TO BE MOUNTED TO  
THE EXISTING AT&T LATTICE TOWER,  
LOCATED AT 168 CATOONA LANE,  
STAMFORD, CT**



POWER DENSITY ANALYSIS  
AT&T TOWER, 168 CATOONA LANE, STAMFORD, CONNECTICUT  
SITE NAME: STAMFORD AT&T TOWER  
TOWER HEIGHT: 331 FEET

Operating Frequency	# of Trans.	ERP per Trans.	Total ± effective Radiated Power	Distance to Target	Calculated Power Density**	Maximum Permitted Exposure*	Fraction of MPE	Operator Name
MHz		watts	watts	feet	mW/cm. sq.	mW/cm.sq.	%	
860.5	4	100	400	232	0.0027	0.573	0.47	Nextel
840	20	100	2000	283	0.0090	0.560	1.60	SNET
931.1875	2	1500	3000	315	0.0109	0.620	1.75	SNET Paging
Repeater-Passive	0	0	0	208	0.0000	-----	0.00	Reflector-Fire Dept City of Stamford Fire
460	1	100	100	315	0.0004	0.306	0.12	AT&T - PD-666
Off-Air	0	0	0	308	0.0000	-----	0.00	AT&T-Horn reflector
1575.42/ 1227.6	0	0	0	16	0.0000	-----	0.00	Sprint Spectrum GPS Receive antenna
1957.5	11	122	1342	154	0.0203	1.000	2.03	Sprint Spectrum Trans mit Antenna
1850-1865	0	0	0	267	0.0000	-----	0.00	Omnipoint Receive Antenna
1930-1945	1	192	316	267	0.00001	1.000	0.001	Omnipoint transmit Antenna

Total Percentage of MPE before AT&T Wireless Inc.= 5.971%

Proposed AT&T Wireless Services, Inc. EMF Contribution

1885-1890	0	0	0	0.000	0.000	0.000	0.000	AT&T Receive Antenna
1965-1970	8	100	800	216	0.00617	1.000	0.617	AT&T Transmit Antenna

Total Percentage of MPE including AT&T wireless Services, Inc. 6.588%

\*\* In accordance with "OET Bulletin No. 65 - Edition 97-01, August 1997"

\* IEEE C95.1-1991 (Revision of ANSI C95.1-1982)

NOTE: The data contained in this Power Density Analysis, is based on file data of the Connecticut Siting Council and from the information provided by AT&T, the Tower owner.

The Principal Features Of The Proposed Installation And The Assumptions Considered In The Analysis Are As Follows;

- a) The proposed AT&T (PCS) radio antennas will be mounted to the existing Tower as indicated by the AT&T drawings. The AT&T antennas will be mounted at two elevations, 242 feet (sectors alpha and Gamma) and 222 feet (sector beta). The lowest elevation from the centerline of the proposed AT&T antennas to the persons head at the base of the existing Tower will be approximately 216 feet.
- b) The antenna cluster will consist of three (3) Sectors, using four (4) directional type antennas (DAPA 58010-92-15 dBd) per sector. The physical arrangement of these antennas is illustrated in drawings given by AT&T.
- c) The maximum number of channels that will be assigned to the antenna array in each sector, it is assumed, will not exceed eight (8). The output of the transmitting antenna per channel will not exceed 100 WERP. The total antenna output power per sector will not exceed 800 WERP. The radio transmissions could be at frequencies between 1965 and 1970 MegaHertz.
- d) It was assumed that the elevation of the Stamford community within a radius of 2000 feet from the PCS Antenna perimeter is equal to the elevation at the rear base of the existing lattice tower, with exceptions as noted in Table II.
- e) All field points are at Radial distances indicated from the base of the lattice tower where the vertical line of the PCS Transmitting antenna intersects.
- f) The additionally existing Carrier antenna emissions are included in this analysis.

# AT&T WIRELESS PCS, INC.

## WIRELESS COMMUNICATIONS FACILITY

AT&T TOWER, CATOONA LANE  
STAMFORD, CONNECTICUT

INTERIOR FITOUT

PROJECT SITE NO. CT-008



AT&T

15 EAST MIDLAND AVENUE  
PARAMUS, NEW JERSEY 07652

URS Greiner Woodward Clyde  
A-E-S

500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-(800)-529-8882

A&E SEAL

PROJECT NO: F301824.03  
DRAWN BY: JGB  
CHECKED BY:  
APPROVED BY:

ISSUED FOR		
1	7/19/99	SITING COUNCIL

THE INFORMATION CONTAINED  
IN THIS SET OF DOCUMENTS  
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ANY USE OR DISCLOSURE  
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RELATES TO AT&T IS  
STRICTLY PROHIBITED.

AT&T  
TOWER

168 CATOONA LANE  
STAMFORD, CONNECTICUT

TITLE  
SHEET

T-1

DRAWING 1 OF 2

VICINITY MAP

NO SCALE

STAMFORD

GREENWICH

TOWN LINE

SHEET INDEX

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
SC-1	SITE PLAN, EQUIPMENT ROOM LAYOUT AND ELEVATION

PROJECT SUMMARY

SITE NAME: AT&T TOWER

SITE ADDRESS: 168 CATOONA LANE  
STAMFORD, CONNECTICUT

ASSESSOR'S PARCEL NO.: MAP 119, BLOCK 283-A,  
LOT 0000370

CURRENT ZONING: RM-1

GOVERNING CODE: CONNECTICUT BUILDING CODES  
CONNECTICUT FIRE SAFETY CODE

JURISDICTION: CITY OF STAMFORD

PROPERTY OWNER: AMERICAN TELEPHONE AND  
TELEGRAPH CO.

APPLICANT: AT&T WIRELESS PCS, INC  
147 WATER STREET  
NORWALK, CONNECTICUT

A/E: URS GREINER WOODWARD CLYDE A.E.S.  
500 ENTERPRISE DRIVE  
ROCKY HILL, CT 06067



**URS Greiner Woodward Clyde**  
**A-E-6**

**MAE SEAL**

APPROVED BY:

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SC-1

DRAWING 2 OF 2



SC-1.dwg 7-18-99 12:17:26 pm EST



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

July 30, 1999

Honorable Dannel P. Malloy  
Mayor  
City of Stamford  
Stamford Government Center  
888 Washington Blvd.  
P.O. Box 891  
Stamford, CT 06904-0891

RE: EM-AT&T-135-990721 - AT&T Wireless PCS notice of intent to modify an existing telecommunications facility located at 168 Catoonah Lane in Stamford, Connecticut.

Dear Mayor Malloy:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for Monday, August, 16, 1999, at 1:30 p.m., in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

Joel M. Rinebold  
Executive Director

JMR/jlh/tsg

Enclosure: Notice of Intent

FILE  
COPY